

## PROCESSING COMPLETED FOR L33

3 DUP REMD32 (7 DUPLICATES REMOVED)

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BVDUPLICATE 1

ACCESSION NUMBER: 2000442671 EMBASE

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L33 ANSWER 1 OF 3 EMBASE COPYRIGHT 2001 ELSEVIER SCI.

TITLE:

beta-Amyloid-induced migration of monocytes across human

brain endothelial cells involves RAGE and

PECAM-1.

AUTHOR: Yan, S. D.; Schmidt, A. M.; Stern, D. M.; Tokes, Z. A.;

CORPORATE SOURCE: (1) University of Southern California, Los Angeles, CA USA

SOURCE: Society for Neuroscience Abstracts, (2000) Vol. 26, No.

1-2, pp. Abstract No. 859.2, print.

Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000

ISSN: 0190-5295.

DOCUMENT TYPE: Conference

LANGUAGE: English

SUMMARY LANGUAGE: English

AB In patients with amyloid beta-related cerebrovascular disorders one finds

increased deposition of amyloid peptide (Abeta) as well as increased presence of monocytes in the brain. However, relatively little is known of the role of Abeta in trafficking of blood monocytes across the blood-brain barrier and concomitant accumulation of monocytes/microglia in AD brain.

Our studies show that Abeta(1-40)-mediates transmigration of peripheral blood monocytes, HL-60 and THP-1 monocytic cells across monolayer of brain endothelial cells (BEC) derived from normal and AD individuals. The

Abeta-induced transmigration of monocytes was &gt; 75% inhibited by antibodies to Abeta-palmitoyl receptor RAGE and PECAM-1. The transmigration of monocytes across monolayer of BEC cultivated in Transwell chamber was approx 7 fold more when Abeta was added to the bottom (abluminal) side of AD vs normal individual BEC (n=3). The transmigration of monocytes was inhibited by tyrosine kinase and protein kinase C inhibitors, and augmented by protein phosphatase inhibitor. Our studies show that Abeta causes time dependent increase in the phosphorylation of PECAM-1 at tyrosine residues.

We conclude that (i) interaction of Abeta with RAGE on BEC initiates cellular signaling leading to the phosphorylation of PECAM-1, which may have a direct or causal effect on the trafficking of monocytes, and (ii) there is a differential response to Abeta when added to the abluminal side of AD vs normal BEC monolayer.

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BVDUPLICATE 2

ACCESSION NUMBER: 1998293065 EMBASE

TITLE:

Human blood-brain barrier receptors for Alzheimer's

amyloid-beta 1-40. Asymmetrical binding, endocytosis, and transcytosis at the apical side of brain microvascular

endothelial cell monolayer.

AUTHOR: Mackie J.B.; Sims M.; McComb J.G.; Calero M.; Ghiso

J.

Kwang Sik Kim; Shi Du Yan; Stern D.; Schmidt A.M.; Frangione B.; Zlokovic B.V.

CORPORATE SOURCE: Dr. B.V. Zlokovic, USC School of Medicine,

RMR 505, 2005

AUTHOR(S):

Katra, V. K. (1); Sims, M. A.; Kim, K. S.; Miller, C. A.; Zlokovic, B. V.; Gin, R.

SOURCE: Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No. 859.2, print.

Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000

ISSN: 0190-5295.

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LANGUAGE: English

SUMMARY LANGUAGE: English

AB A soluble monomeric form of Alzheimer's amyloid-beta, (1-40) peptides

008 Neurology and Neurosurgery

029 Clinical Biochemistry

COUNTRY: United States

DOCUMENT TYPE: Journal Article

FILE SEGMENT: 005 General Pathology and Pathological Anatomy

Refs: 51

ISSN: 0021-9738 CODEN: JCNAO

Zonal Avenue, Los Angeles, CA 90033, United States.

zbkow@jhsc.usc.edu

Journal of Clinical Investigation, (15 Aug 1998) 102/4 (734-743)

FILE SEGMENT: 006 General Pathology and Pathological Anatomy

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COUNTRY: United States&lt;/div

L8  
L9  
6 S L8 AND TREAT?  
L10  
3 DUP REM L9 (3 DUPLICATES REMOVED)  
L11  
4 S L1 AND (GENE THERAPY)  
L12  
4 DUP REM L11 (0 DUPLICATES REMOVED)  
L13  
388 S L1 AND INHIBIT?  
L14  
47 S L13 AND SOLUBLE  
L15  
19 DUP REM L14 (28 DUPLICATES REMOVED)  
L16  
5 S L13 AND TRANSCTOSIS  
L17  
1 DUP REM L16 (4 DUPLICATES REMOVED)  
L18  
2495 S STERN D?AU  
L19  
194 S L1 AND L18  
L20  
58 S L19 AND INHIBIT?  
L21  
23 DUP REM L20 (35 DUPLICATES REMOVED)  
L22  
5704 S SCHMIDT A?AU  
L23  
76 S L22 AND L13  
L24  
34 S L23 AND SOLUBLE  
L25  
13 DUP REM L24 (21 DUPLICATES REMOVED)  
L26  
2684 S YAN S?AU  
L27  
33 S L13 AND L26  
L28  
33 S L27 AND INHIBIT?  
L29  
13 S L28 AND SOLUBLE  
L30  
4 DUP REM L29 (9 DUPLICATES REMOVED)  
L31  
549 S ZLOKOVIC B?AU  
L32  
10 S L13 AND L31  
L33  
3 DUP REM L32 (7 DUPLICATES REMOVED)  
=>  
--Logging off of STN---

=>  
Executing the logoff script...

=> LOG OFF

COST IN U.S. DOLLARS	ENTRY SESSION	SINCE FILE	TOTAL
FULL ESTIMATED COST	202.89	203.04	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)			
TOTAL			
CA SUBSCRIBER PRICE	ENTRY SESSION		
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